

93-172787/21

E12 H07

TOFU 91.10.16

E(5-B1) H(7-G)

H0082

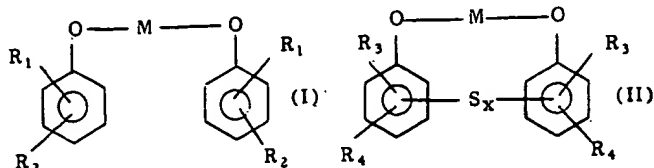
TONEN CORP

JP 05105892-A

91.10.16 91JP-296350 (93.04.27) C10M 129/10, 135/02 (C10N 10:04, 30:00, 40:04, 60:10)

Lubricating oil compsn. for automatic speed change gear - comprises at least one alkyl phenate metal salts and sulphurised alkyl phenate metal salts
C93-077171

A new lubricating oil compsn. for automatic gear systems contains 0.05-5.0 wt. % of alkyl phenate metal salts of formula (I) and sulphurised alkyl phenate metal salts of formula (II).



R₁ = 5-28C alkyl;
R₂ = H or 1-28C alkyl;
M = Ca, Ba or Mg;
R₃ = 5-28C alkyl; and

R₄ = H or 1-28C alkyl.USE/ADVANTAGE

The compsn. has good low-speed performance and change shock preventing performance and high durability.

MATERIALS

Pref. R₁ and R₃ = 8-20C alkyl; and R₂ and R₄ = H or 1-20C alkyl.

Suitable phenates include dodecyl calcium-, hexadecyl calcium-, perbasic dodecyl calcium-, sulphurised dodecyl calcium- and sulphurised hexadecyl calcium phenate.

Suitable additives are opt. added, including wear-resistant agents, cleaning dispersants and antioxidants.
(7ppW31RBHDwgNo0/0).

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